FIGURE 1

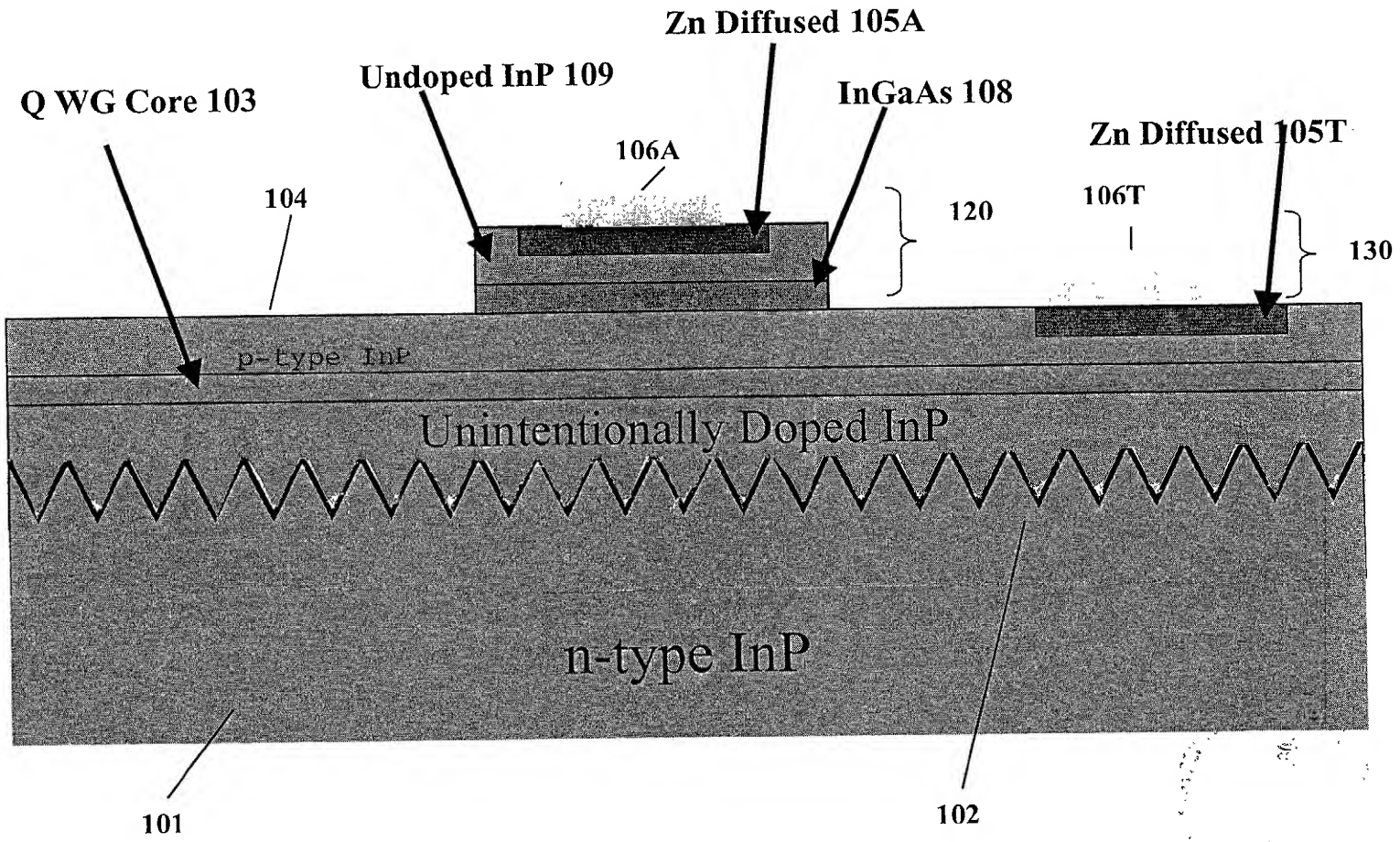

Zn Diffused 105A
Undoped InP 109
Q WG Core 103
InGaAs 108
106A
Zn Diffused 105T
104
120
106T
130
p-type InP
Unintentionally Doped InP
n-type InP
101
102

FIGURE 2

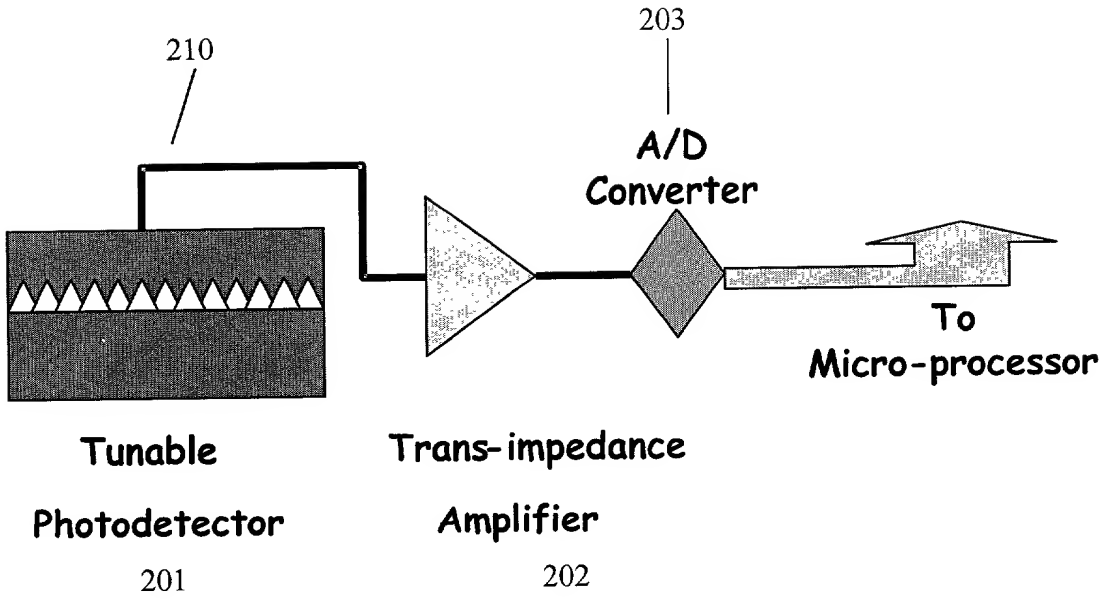

210
203
A/D
Converter
To
Micro-processor
Tunable
Photodetector
201
Trans-impedance
Amplifier
202

FIGURE 3

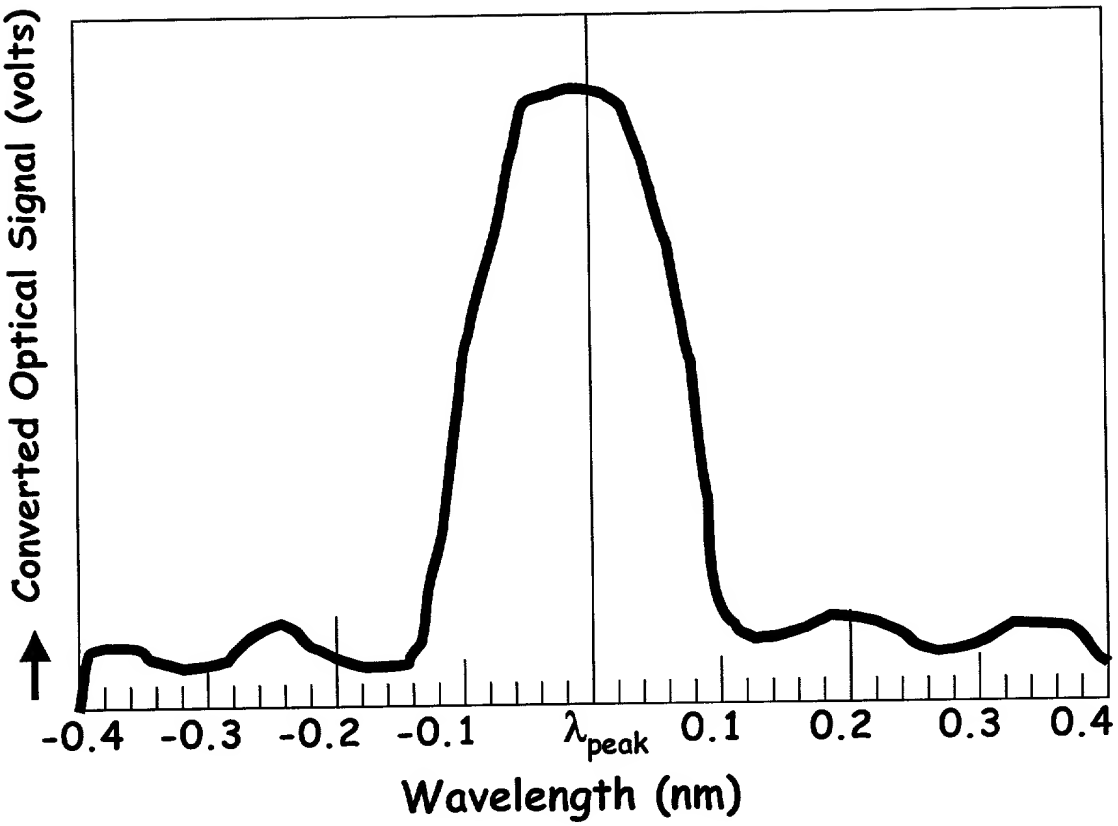

Converted Optical Signal (volts)
-0.4
-0.3
-0.2
-0.1
λpeak
0.1
0.2
0.3
0.4
Wavelength (nm)

FIGURE 3A

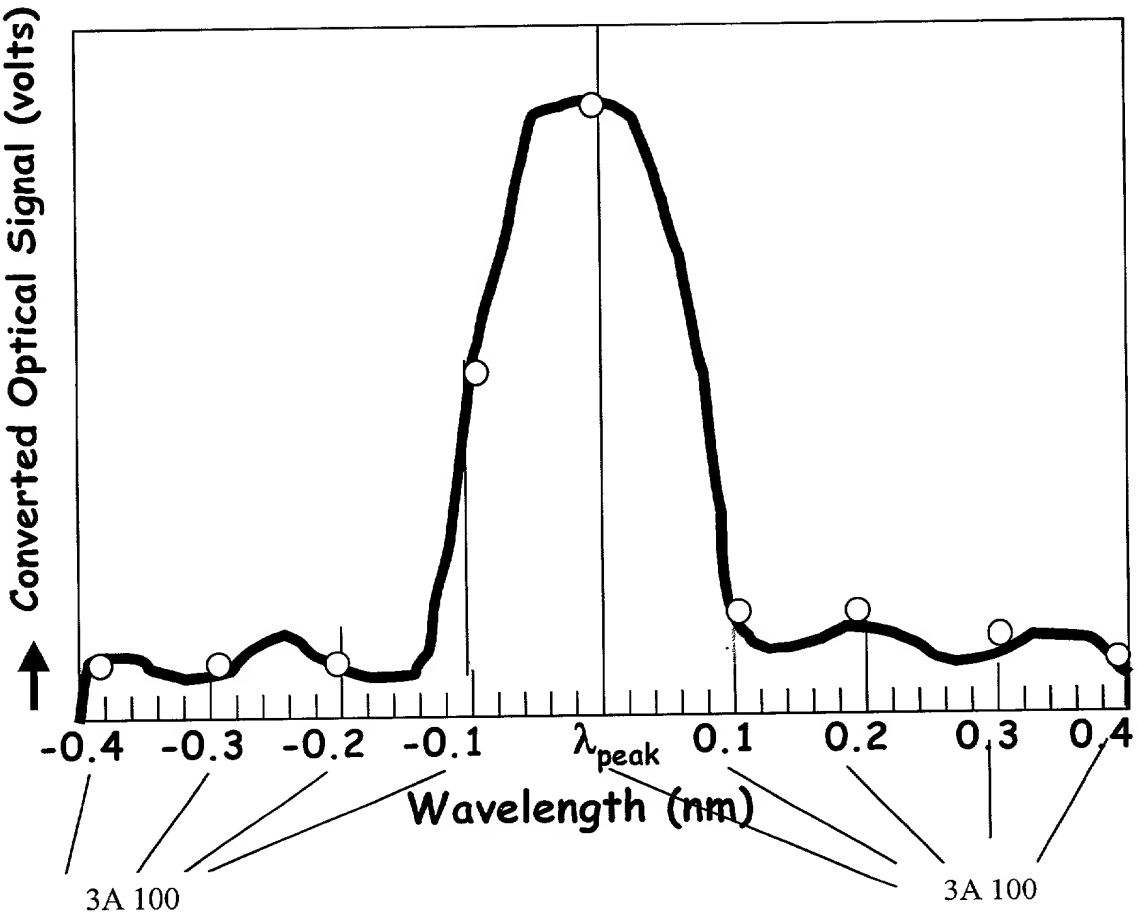
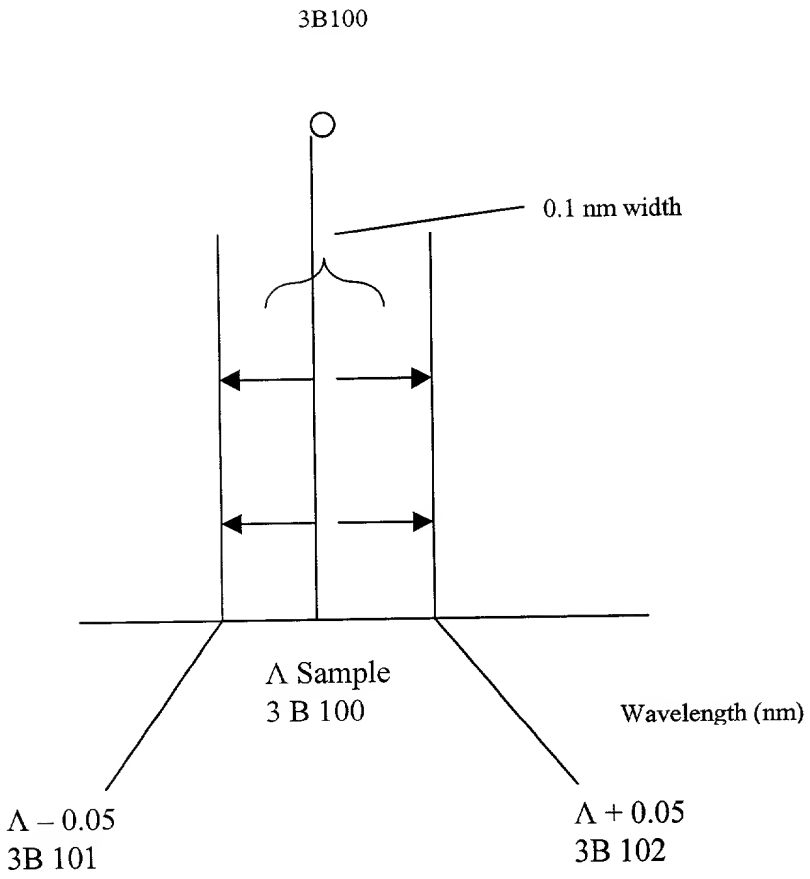

Converted Optical Signal (volts)
-0.4
-0.3
-0.2
-0.1
λpeak
0.1
0.2
0.3
0.4
Wavelength (nm)
3A 100
3A 100

FIGURE 3B


3B100
0.1 nm width
Λ Sample
3 B 100
Wavelength (nm)
Λ – 0.05
3B 101
Λ + 0.05
3B 102